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POTTY-TRAINING PROMOTION SHEET

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[Attached amendments are incorporated into the texts of the translation.]

Abstract

Problem

Although products in which several layers of mask materials are provided in such a manner that a picture drawn in advance is invisible while they are dry have long been proposed as products for effectively promoting potty training of babies, they use many materials.

Solution

The present invention is configured such that an applied ink remains colorless and transparent during normal conditions, and it shows color when it becomes wet by water or when it reacts with ammonia.

Claims

1. A potty-training promotion sheet formed into an arbitrary shape and size, characterized in that pictures and/or characters are drawn on a toilet-flushable paper material, such as water-decomposable paper or water-soluble paper, using an ink, a paint, a colorant, or a chemical which shows color when it reacts with water or ammonia.

2. A potty-training promotion sheet characterized in that pictures and/or characters are drawn on a toilet-flushable paper material, such as water-decomposable paper or water-soluble paper, using a conventional ink, a paint, a colorant, or a chemical and further are masked using an ink, a paint, a colorant, or a chemical which is opaque under normal conditions and becomes transparent when it reacts with water or which can be dissolved by water and flushed in a toilet.

Detailed explanation of the invention

[0001]

Technical field of the invention

The present invention pertains to an aid for promoting or for practicing potty-training of babies, which is made of a paper sheet on which pictures and/or characters are drawn using an ink, a paint, a colorant, or a chemical which is invisible when it is dry and shows color when it reacts with water or ammonia.

[0002]

Prior art

Although underpants-type diapers have been available as diapers with pictures drawn inside which are invisible under normal conditions and become visible through a surface layer when they become wet, they have different purposes. An absorbent laminate sheet of the type disclosed in Japanese Utility Model No. 3069714 has been available as one promoting potty-training of babies.

[0003]

Problem to be solved by the invention

As described above, in the past, several layers had to be laminated in order to prevent drawn pictures from being visible when they were dry. Thus, it took an increased number of layers to make them completely invisible. As a result, they became rather hard to see when they became wet, and more waste was produced due to the amount of materials used. Accordingly, one with a simple structure which is easy to fabricate needs to be presented.

[0004]

Means to solve the problem

Instead of hiding pictures with [layers of] paper, an ink, paint, colorant, or chemical used for drawing should be composed such that it remains colorless and transparent when it is dry and shows color when it reacts with water or ammonia or an ink, a paint, a colorant, or a chemical which becomes transparent when it reacts with water or dissolves in water should be used for masking, or a toilet-flushable paper material, such as water-decomposable paper or water-soluble paper, should be used.

[0005]

Embodiment of the invention

It is a sheet on which pictures and/or characters are drawn on a toilet-flushable paper material, such as water-decomposable paper or water-soluble paper, using an ink, a paint, a colorant, or a chemical which is invisible when it is dry and shows color when it reacts with water or ammonia. That is, animals, cars, and/or cartoon characters attractive to babies are drawn on a sheet made into an arbitrary shape using the aforementioned ink. Although there are no particular restrictions, it is considered appropriate to draw them in a size roughly equal to that of a postcard or half of it in terms of practicality.

[0006]

Alternatively, a sheet made of a toilet-flushable paper material, such as water-decomposable paper or water-soluble paper, on which pictures and/or characters are drawn using a conventional ink should be masked using an ink, a paint, a colorant, or a chemical which remains opaque under normal conditions and becomes transparent when it reacts with water or becomes dissolved by water.

[0007]

Furthermore, although a sheet material is presented here, a sheet material made into a semi-3D or 3D shape by means of press-shaping is also included in consideration of the scope of practicality.

[0008]

In addition, although a toilet-flushable paper material, such as water-decomposable paper or water-soluble paper, is presented here as a material for the sheet, use of water-decomposable or toilet-flushable materials other than paper is also included.

[0009]

In addition, although an ink, a paint, a colorant, or a chemical which shows color when it reacts with water or ammonia is presented here, items which change color from a light color to a dark color are also included in addition to those which show color from a colorless state in consideration of the scope of practicality.

[0010]

In addition, masking materials with a poor level of opacity or transparency are also included as long as they fall in an allowable range in addition to those which become transparent from a completely opaque state.

[0011]

Application examples

Application examples of the present invention will be explained next.

[0012]

Application Example 1

A first application example of the present invention is shown in Figure 1, wherein an example of the potty-training promotion sheet described in Claim 1 is shown.

[0013]

Application Example 2

A second application example of the present invention is shown in Figure 2, wherein an example of the potty-training promotion sheet described in Claim 2 is shown.

[0014]

Effect of the invention

In the case of diapers in which are formed drawn pictures difficult to see when dry, and the pictures drawn underneath become visible when a baby urinates to wet a diaper, and the urine penetrates through the covering paper and the masking material, whether the diaper is wet can be known, so there is no significant benefit for the baby, nor is there any benefit for the mother in terms of the labor required of her. In contrast, in the case of Japanese Utility Model No. 3069714, a baby can be trained to go to bathroom willingly, so that potty-training can be done reasonably and easily while reducing the burden on the mother. However, [the product] becomes inevitably expensive because it requires many layers of paper to hide the drawn pictures.

[0015]

However, because the product of the present invention requires only 1 sheet of paper, and because the potty-training promotion sheet of the present invention can also be placed at a dry portion of the bathroom and placed and flushed into the toilet after it is used when a toilet-flushable paper material, such as water-decomposable paper or water-soluble paper, is used, no garbage is produced, so that a high quality, environmentally friendly product can be offered.

[0016]

Furthermore, best of all, because a baby can graduate from diapers naturally by visiting the bathroom willingly without being forced, a user-friendly product can be offered.

[0017]

In addition, it is an excellent product in that it reduces the psychological burden on the mother during the potty-training period.

Brief description of the figures

Figure 1 is an oblique view of a first application example of the present invention.

Figure 2 is an oblique view of a second application example of the present invention.

Explanation of symbols

1. Sheet made of a toilet-flushable paper material, such as water-decomposable paper or water-soluble paper.
2. Picture drawn using an ink, a paint, a colorant, or a chemical which shows color when it reacts with water or ammonia. (Said picture is invisible in the pre-use state)
3. Picture drawn using a conventional ink, a paint, a colorant, or a chemical.
4. Masking layer formed using an ink, a paint, a colorant, or a chemical which remains opaque under normal conditions and becomes transparent when it reacts with water or can be dissolved and flushed with water.



Figure 1



Figure 2